

## CHAPTER EIGHT

### FUEL SYSTEM

The fuel system consists of the carburetor, fuel tank, fuel shutoff valve and air filter.

This chapter includes service procedures for all parts of the fuel system, except routine air filter service which is covered in Chapter Three.

The carburetor is equipped with an air cutoff valve. The valve plunger blocks the pilot air passage when the throttle closes to prevent a lean condition afterburn in the exhaust system.

**Table 1** and **Table 2** lists carburetor specifications. **Tables 1-2** are located at the end of the chapter.

#### CARBURETOR

##### Removal/Installation

1. Park the ATV on level ground and set the parking brake.
2. Remove the seat and both side covers (Chapter Fifteen).
3. Remove the air box as described in this chapter.
4. Disengage the carburetor heater wire from the clamp, then disconnect the connector (A, **Figure 1**).
5. Disconnect the breather hose (B, **Figure 1**).

6. Disconnect the fuel hose from the carburetor (A, **Figure 2**).
7. Loosen the starting enrichment (SE) valve nut (B, **Figure 2**).
8. Loosen the front carburetor hose clamp (**Figure 3**).
9. Pull the carburetor back to remove it from the intake tube.
10. Remove the SE valve (**Figure 4**) from the carburetor.
11. Disconnect the throttle cable as follows:
  - a. Remove the carburetor cover screw (A, **Figure 5**) and cover (B).
  - b. Slide the cover (A, **Figure 6**) away from the throttle cable adjuster (B) on the carburetor.
  - c. Loosen the throttle cable locknut and unscrew the adjuster from the carburetor.
  - d. Disconnect the throttle cable (C, **Figure 6**) from the throttle pulley.
12. Remove the carburetor.
13. Cover or plug all openings.
14. Install the carburetor by reversing the preceding removal steps, while noting the following:
  - a. Apply a dab of grease onto the end of the throttle cable (C, **Figure 6**) before connecting it onto the throttle pulley.

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